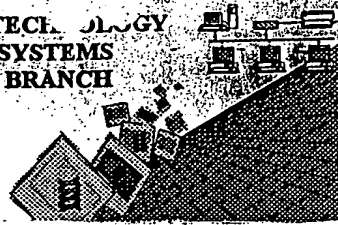


RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



TECH CENTER 1600/2900

JUL 10 2002

RECEIVED

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/720,383A
Source: 600
Date Processed by STIC: 7/3/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 01/29/2002



Does Not Comply
Corrected Diskette Needed

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/720,383A

DATE: 07/03/2002

TIME: 12:31:45

Errors on
pp. 1 + 5

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt

Output Set: N:\CRF3\07032002\I720383A.raw

TECH CENTER 1600/2900

JUL 10 2002

RECEIVED

3 <110> APPLICANT: E. I. du Pont de Nemours and Company

5 <120> TITLE OF INVENTION: Plant Cellulose Synthases

7 <130> FILE REFERENCE: BB-1170

--> 9 <140> CURRENT APPLICATION NUMBER: US/09/720,383A

--> 10 <141> CURRENT FILING DATE: 2002-05-10

12 <150> PRIOR APPLICATION NUMBER: 60/092,844

--> 13 <151> PRIOR FILING DATE: July 14, 1998

15 <160> NUMBER OF SEQ ID NOS: 29

17 <170> SOFTWARE: Microsoft Office 97

ERRORED SEQUENCES

1821 <210> SEQ ID NO: 19

1822 <211> LENGTH: 1742

1823 <212> TYPE: DNA

1824 <213> ORGANISM: Triticum aestivum

1826 <220> FEATURE:

1827 <221> NAME/KEY: unsure

1828 <222> LOCATION: (9)

1830 <220> FEATURE:

1831 <221> NAME/KEY: unsure

1832 <222> LOCATION: (271)

1834 <400> SEQUENCE: 19

wrong nucleic acid designation

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1837 actgtctttt ttgatattaa cttgaggggc cttgacggca ttcaaggacc agtttatgtg 180
1838 ggaactggtt gtgttttcaa cagaacggct atctatggtt atgagccccc aattaaggcg 240
--> 1839 aagaagccag gtttcttggc atcattatgt nggggcaaga agaaggcaag caagtcaaag 300
1840 aaaaggagct cagataagaa aaagtcgaac aagcatgtgg acagttctgt tccagtattc 360
1841 aatctcgaag acatagagga ggggtgttga ggtgctgggt ttgatgatga gaaatcagtt 420
1842 ctcatgtctc aaatgagctt agagaagaga tttggccagt cagcagcatt tgttgccctc 480
1843 actctgatgg aatatgggtg tgttctcag tcgtccactc cagaatctct tttgaaagaa 540
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1845 tggatctatg gatctgtcac agaagatatt ctaactggat tcaagatgca cgcaagaggg 660
1846 tggcgttcaa tctattgcat gcccaagcgc ccagctttca agggatctgc ccccatcaat 720
1847 ctttcagatc gtctgaatca agtgcgtcgg tgggctcttg gttctgttga aattcttttc 780
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RAW SEQUENCE LISTING

DATE: 07/03/2002

PATENT APPLICATION: US/09/720,383A

TIME: 12:31:45

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt

Output Set: N:\CRF3\07032002\I720383A.raw

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1855 atgttcaagt ggacgacgct tcttatccct ccgacgacca ttttgatcat taacatgggc 1260
1856 ggtgtogttg ctggtacctc ctacgccatc aacagtgggt accaatcatg ggggccgctc 1320
1857 tttgggaagc ttttctttgc cttctgggtg attgttcaact tatacccatt cctcaagggt 1380
1858 cttatgggca ggcaaaaccg cacaccgacg attgtcatcg tctgggctgt cctcctcgct 1440
1859 tctatcttct ccttgcctgt ggctcgtgt gatccattca ctaccgtct cgctggccca 1500
1860 aatatccaaa cctgtggcat caactgctag gaaagtggga gttttagtag acagaaaata 1560
1861 taacagtgat cgagcgacca cctgtggagc cagagaatat ttatgttggg gttgtgaatt 1620
1862 actacgtttg agaaagtgtg caaaattgag aaaacacatt tgtaaataga tgtaatatag 1680
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1864 aa

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3179 <210> SEQ ID NO: 29

3180 <211> LENGTH: 1081

3181 <212> TYPE: PRT

3182 <213> ORGANISM: Arabidopsis thaliana

3184 <400> SEQUENCE: 29

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3186 1 5 10 15
3188 Ile Asn Ala Asp Glu Asn Ala Arg Ile Arg Ser Val Gln Glu Leu Ser
3189 20 25 30
3191 Gly Gln Thr Cys Gln Ile Cys Arg Asp Glu Ile Glu Leu Thr Val Asp
3192 35 40 45
3194 Gly Glu Pro Phe Val Ala Cys Asn Glu Cys Ala Phe Pro Val Cys Arg
3195 50 55 60
3197 Pro Cys Tyr Glu Tyr Glu Arg Arg Glu Gly Asn Gln Ala Cys Pro Gln
3198 65 70 75 80
3200 Cys Lys Thr Arg Phe Lys Arg Leu Lys Gly Ser Pro Arg Val Glu Gly
3201 85 90 95
3203 Asp Glu Glu Glu Asp Asp Ile Asp Asp Leu Asp Asn Glu Phe Glu Tyr
3204 100 105 110
3206 Gly Asn Asn Gly Ile Gly Phe Asp Gln Val Ser Glu Gly Met Ser Ile
3207 115 120 125
3209 Ser Arg Arg Asn Ser Gly Phe Pro Gln Ser Asp Leu Asp Ser Ala Pro
3210 130 135 140
3212 Pro Gly Ser Gln Ile Pro Leu Leu Thr Tyr Gly Asp Glu Asp Val Glu
3213 145 150 155 160
3215 Ile Ser Ser Asp Arg His Ala Leu Ile Val Pro Pro Ser Leu Gly Gly
3216 165 170 175
3218 His Gly Asn Arg Val His Pro Val Ser Leu Ser Asp Pro Thr Val Ala
3219 180 185 190
3221 Ala His Arg Arg Leu Met Val Pro Gln Lys Asp Leu Ala Val Tyr Gly
3222 195 200 205
3224 Tyr Gly Ser Val Ala Trp Lys Asp Arg Met Glu Glu Trp Lys Arg Lys
3225 210 215 220
3227 Gln Asn Glu Lys Leu Gln Val Val Arg His Glu Gly Asp Pro Asp Phe
3228 225 230 235 240
3230 Glu Asp Gly Asp Asp Ala Asp Phe Pro Met Met Asp Glu Gly Arg Gln
3231 245 250 255
3233 Pro Leu Ser Met Lys Ile Pro Ile Lys Ser Ser Lys Ile Asn Pro Tyr

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RAW SEQUENCE LISTING

DATE: 07/03/2002

PATENT APPLICATION: US/09/720,383A

TIME: 12:31:46

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt

Output Set: N:\CRF3\07032002\I720383A.raw

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3236	Arg	Met	Leu	Ile	Val	Leu	Arg
3237							
3239	Tyr	Arg	Ile	Leu	His	Pro	Val
3240		290				295	
3242	Ser	Val	Ile	Cys	Glu	Ile	Trp
3243	305					310	
3245	Phe	Pro	Lys	Trp	Tyr	Pro	Ile
3246						325	
3248	Ser	Leu	Arg	Tyr	Glu	Lys	Glu
3249						340	
3251	Asp	Val	Phe	Val	Ser	Thr	Val
3252						355	
3254	Thr	Ala	Asn	Thr	Val	Leu	Ser
3255						370	
3257	Lys	Val	Ala	Cys	Tyr	Val	Ser
3258	385					390	
3260	Glu	Ala	Leu	Ser	Glu	Thr	Ala
3261						405	
3263	Cys	Lys	Lys	Tyr	Cys	Ile	Glu
3264						420	
3266	His	Lys	Met	Asp	Tyr	Leu	Lys
3267						435	
3269	Glu	Arg	Arg	Ala	Met	Lys	Arg
3270						450	
3272	Asn	Ala	Leu	Val	Ala	Thr	Ala
3273	465					470	
3275	Met	Gln	Asp	Gly	Thr	Pro	Trp
3276						485	
3278	Gly	Met	Ile	Gln	Val	Phe	Leu
3279						500	
3281	Asn	Asn	Glu	Leu	Pro	Arg	Leu
3282						515	
3284	Gly	Phe	Asp	His	His	Lys	Lys
3285						530	
3287	Val	Ser	Gly	Val	Leu	Ser	Asn
3288	545					550	
3290	Asp	His	Tyr	Ile	Asn	Asn	Ser
3291						565	
3293	Met	Met	Asp	Pro	Gln	Ser	Gly
3294						580	
3296	Gln	Arg	Phe	Asp	Gly	Ile	Asp
3297						595	
3299	Val	Val	Phe	Phe	Asp	Ile	Asn
3300						610	
3302	Pro	Ile	Tyr	Val	Gly	Thr	Gly
3303	625					630	
3305	Gly	Phe	Asp	Ala	Pro	Lys	Lys
3306						645	

RAW SEQUENCE LISTING

DATE: 07/03/2002

PATENT APPLICATION: US/09/720,383A

TIME: 12:31:46

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt

Output Set: N:\CRF3\07032002\I720383A.raw

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3308 Cys Trp Pro Lys Trp Cys Leu Leu Cys Phe Gly Ser Arg Lys Asn Arg
3309                660                665                670
3311 Lys Ala Lys Thr Val Ala Ala Asp Lys Lys Lys Lys Asn Arg Glu Ala
3312                675                680                685
3314 Ser Lys Gln Ile His Ala Leu Glu Asn Ile Glu Glu Gly Arg Gly His
3315                690                695                700
3317 Lys Val Leu Asn Val Glu Gln Ser Thr Glu Ala Met Gln Met Lys Leu
3318 705                710                715                720
3320 Gln Lys Lys Tyr Gly Gln Ser Pro Val Phe Val Ala Ser Ala Arg Leu
3321                725                730                735
3323 Glu Asn Gly Gly Met Ala Arg Asn Ala Ser Pro Ala Cys Leu Leu Lys
3324                740                745                750
3326 Glu Ala Ile Gln Val Ile Ser Arg Gly Tyr Glu Asp Lys Thr Glu Trp
3327                755                760                765
3329 Gly Lys Glu Ile Gly Trp Ile Tyr Gly Ser Val Thr Glu Asp Ile Leu
3330                770                775                780
3332 Thr Gly Ser Lys Met His Ser His Gly Trp Arg His Val Tyr Cys Thr
3333 785                790                795                800
3335 Pro Lys Leu Ala Ala Phe Lys Gly Ser Ala Pro Ile Asn Leu Ser Asp
3336                805                810                815
3338 Arg Leu His Gln Val Leu Arg Trp Ala Leu Gly Ser Val Glu Ile Phe
3339                820                825                830
3341 Leu Ser Arg His Cys Pro Ile Trp Tyr Gly Tyr Gly Gly Gly Leu Lys
3342                835                840                845
3344 Trp Leu Glu Arg Leu Ser Tyr Ile Asn Ser Val Val Tyr Pro Trp Thr
3345                850                855                860
3347 Ser Leu Pro Leu Ile Val Tyr Cys Ser Leu Pro Ala Ile Cys Leu Leu
3348 865                870                875                880
3350 Thr Gly Lys Phe Ile Val Pro Glu Ile Ser Asn Tyr Ala Ser Ile Leu
3351                885                890                895
3353 Phe Met Ala Leu Phe Ser Ser Ile Ala Ile Thr Gly Ile Leu Glu Met
3354                900                905                910
3356 Gln Trp Gly Lys Val Gly Ile Asp Asp Trp Trp Arg Asn Glu Gln Phe
3357                915                920                925
3359 Trp Val Ile Gly Gly Val Ser Ala His Leu Phe Ala Leu Phe Gln Gly
3360                930                935                940
3362 Leu Leu Lys Val Leu Ala Gly Val Asp Thr Asn Phe Thr Val Thr Ser
3363 945                950                955                960
3365 Lys Ala Ala Asp Asp Gly Glu Phe Ser Asp Leu Tyr Leu Phe Lys Trp
3366                965                970                975
3368 Thr Ser Leu Leu Ile Pro Pro Met Thr Leu Leu Ile Ile Asn Val Ile
3369                980                985                990
3371 Gly Val Ile Val Gly Val Ser Asp Ala Ile Ser Asn Gly Tyr Asp Ser
3372                995                1000                1005
3374 Trp Gly Pro Leu Phe Gly Arg Leu Phe Phe Ala Leu Trp Val Ile Ile
3375                1010                1015                1020
3377 His Leu Tyr Pro Phe Leu Lys Gly Leu Leu Gly Lys Gln Asp Arg Met
3378 1025                1030                1035                1040
3380 Pro Thr Ile Ile Val Val Trp Ser Ile Leu Leu Ala Ser Ile Leu Thr

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/720,383A

DATE: 07/03/2002

TIME: 12:31:46

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt

Output Set: N:\CRF3\07032002\I720383A.raw

3381		1045		1050		1055
3383	Leu	Leu	Trp	Val	Arg	Val
				Asn	Pro	Phe
						Val
						Ala
						Lys
						Gly
						Gly
						Pro
						Ile
3384		1060		1065		1070
3386	Leu	Glu	Ile	Cys	Gly	Leu
			Asp	Cys	Leu	
3387		1075		1080		

--> 3389 ① -delete

VERIFICATION SUMMARY

DATE: 07/03/2002

PATENT APPLICATION: US/09/720,383A

TIME: 12:31:47

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt

Output Set: N:\CRF3\07032002\I720383A.raw

:9 M:270 C: Current Application Number differs, Replaced Application Number
:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
:13 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
:1284 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
:1284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:192
:1835 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:19
:1835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
:1835 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3
:1839 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:19
:1839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:237
:1891 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:20
:1891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:80
:3389 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:29